

EAST Search History

(70pp) *[Signature]*

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| L1 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | ON | 2008/01/02 06:23 |
| L2 | 2 | jp-2003037268\$-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:24 |
| L3 | 29 | ((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541,797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 06:26 |
| L4 | 15 | ((("2001210867") or ("2002164570") or ("2000353820") or ("2002111059") or ("2002076356") or ("2002222991") or ("2002170993")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 06:32 |
| L5 | 2 | jp-11070610\$-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:34 |
| L6 | 15 | zto near3 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:38 |
| L7 | 0 | zto near3 electrode and magnesium | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:36 |

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| L8 | 1 | zto near3 electrode same Mg | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:40 |
| L9 | 9061 | zno and (glass gan) adj substrate | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:42 |
| L10 | 978 | zno and (glass gan) adj substrate and light-emitting and transparent adj electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:42 |
| L11 | 127 | zno and (glass gan) adj substrate and light-emitting and transparent adj electrode near4 zno | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:42 |
| L12 | 4 | zno and (gan) adj substrate and light-emitting and transparent adj electrode near4 zno | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:43 |
| L13 | 26 | zno and (gan) near3 substrate and light-emitting and transparent adj electrode near4 zno | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:48 |
| L14 | 349 | "II-VI" and zno and substrate near10 (sapphire gan) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:49 |

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| L15 | 234 | "II-VI" and zno and substrate near10 (gan) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 06:49 |
| L16 | 189 | "II-VI" and zno and substrate near10 (gan) and substrate near10 sapphire | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:01 |
| L17 | 2 | jp-2001059164\$-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:03 |
| L18 | 0 | wo-0270793\$-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:03 |
| L19 | 1 | wo-200270793\$-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:10 |
| L20 | 14 | (yoshida near2 hiroshi).in. and ferromagnetic.ti. | USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:52 |
| L21 | 7 | (stack stacking stacked) near10 ("II-VI" near10 "III-V") | USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 07:53 |

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|-----|-----|---|--|----|----|------------------|
| L22 | 42 | (stack stacking stacked) near10 ("II-VI" near10 "III-V") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 08:23 |
| L23 | 739 | (stack stacking stacked) near4 (light adj emitting light\$1emitting) adj (diode element device) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 08:24 |
| L24 | 7 | (stack stacking stacked) near4 (light adj emitting light\$1emitting) adj (diode element device) and active same GaN and active same ZnO | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 08:27 |
| L25 | 18 | (stack stacking stacked) near4 (light adj emitting light\$1emitting) adj (diode element device) and (active same GaN) and (active same "II-VI") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 08:58 |
| L26 | 909 | ("III-V").ti,ab. and ("II-VI").ti,ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 08:59 |
| L27 | 16 | ("III-V").ti,ab. and ("II-VI").ti,ab. and zno and gan | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:30 |
| L28 | 12 | zto near4 electrode and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:33 |

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| L29 | 0 | zto near2 electrode and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:30 |
| L30 | 0 | zto near4 electrode and (magnesium Mg) near2 (doping dopant coat coating coated) and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:34 |
| L31 | 0 | zto near4 electrode and MgZnO and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:34 |
| L32 | 0 | zto near4 electrode and ("Mg:ZnO" "ZnO:Mg") and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:35 |
| L33 | 0 | (zinc adj tin adj oxide zto) near4 electrode and ("Mg:ZnO" "ZnO:Mg") and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:36 |
| L34 | 0 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg") and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:36 |
| L35 | 0 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg" mgzno) and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:36 |

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| L36 | 0 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg" mgzno znmgo) and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:36 |
| L37 | 32 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg" mgzno znmgo magnesium) and (light\$1emitting laser) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 09:43 |
| L38 | 7 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg" mgzno znmgo magnesium) and (light\$1emitting laser) and GaN near10 (active light\$1emitting) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:03 |
| L39 | 60 | (zinc adj tin adj oxide zto) near20 ("Mg:ZnO" "ZnO:Mg" mgzno znmgo magnesium) (Mg-doped near2 (ZnO zinc adj oxide zinc adj tin adj oxide ZTO)) and (light\$1emitting laser) and GaN near10 (active light\$1emitting) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:04 |
| L40 | 1 | "5760423".PN. | USPAT; USOCR | OR | ON | 2008/01/02 10:07 |
| L41 | 1 | "5877558".PN. | USPAT; USOCR | OR | ON | 2008/01/02 10:10 |
| L42 | 9 | Mg-doped adj (ZTO ZnO) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:43 |
| L43 | 26861 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (372/29.01) or (372/43.01) or (372/46.01) or (372/46.013) or (372/46.015) or (349/4\$1) or (349/5\$1)).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 10:45 |

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|-----|---|--|--|----|----|------------------|
| L44 | 0 | 43 and (Mg-coat\$3 Mg-doped) near2 (ZTO ZnO) near10 electrode and (GaN p-GaN) near4 clad\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:47 |
| L45 | 1 | 43 and (((Mg-coat\$3 Mg-doped) near2 (ZTO ZnO)) ("Mg:ZnO" "ZnO:Mg" MgZnO ZnMgO)) near10 electrode and (GaN p-GaN) near4 clad\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:51 |
| L46 | 0 | ((ken near1 nakahara).in. rohm.as.) and (((Mg-coat\$3 Mg-doped) near2 (ZTO ZnO)) ("Mg:ZnO" "ZnO:Mg" MgZnO ZnMgO)) near10 electrode and (GaN p-GaN) near4 clad\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:51 |
| L47 | 0 | ((ken near1 nakahara).in. rohm.as.) and ((magnesium Mg) near4 (ZnO zinc adj oxide zinc adj tin adj oxide ZTO ZnO)((Mg-coat\$3 Mg-doped) near2 (ZTO ZnO)) ("Mg:ZnO" "ZnO:Mg" MgZnO ZnMgO)) near10 electrode and (GaN p-GaN) near4 clad\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 10:53 |
| L48 | 1 | 43 and ((magnesium Mg) near4 (ZnO zinc adj oxide zinc adj tin adj oxide ZTO ZnO)((Mg-coat\$3 Mg-doped) near2 (ZTO ZnO)) ("Mg:ZnO" "ZnO:Mg" MgZnO ZnMgO)) near10 electrode and (GaN p-GaN) near4 clad\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 11:00 |
| L49 | 5 | "713205".ap. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 11:02 |
| L50 | 6 | "031931".ap. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/02 11:02 |

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| L51 | 2 | ("6649434").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:04 |
| L52 | 2 | ("6638846").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:05 |
| L53 | 2 | ("6531408").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:08 |
| L54 | 2 | ("6659548").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:08 |
| L55 | 2 | ("5659548").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:08 |
| L56 | 2 | ("6569548").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:11 |
| L57 | 2 | ("7132691").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:13 |

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| L58 | 3 | ("6711198").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/02 11:13 |
| S1 | 2 | jp-11070610\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/25 18:03 |
| S2 | 6 | "748734".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 10:55 |
| S3 | 1102 | (257/99).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/03/21 10:31 |
| S4 | 2 | S3 and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 10:33 |
| S5 | 36 | (257/79.ccls. 257/8\$1.ccls. 257/9\$1. ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50. ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:44 |
| S6 | 1 | wo-200245179\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:44 |
| S7 | 0 | (257/79.ccls. 257/8\$1.ccls. 257/9\$1. ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50. ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:44 |
| S8 | 3 | (257/79.ccls. 257/8\$1.ccls. 257/9\$1. ccls. 257/10\$1.ccls. 349/4\$1.ccls. 349/5\$1.ccls. "372"/\$4.ccls. 372/50. ccls.) and (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) same electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:47 |

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| S9 | 135 | (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) same electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:48 |
| S10 | 10 | (zinc adj oxide ZnO) near3 (Mg "ZnO:Mg" (magnesium near4 (ZnO zinc adj oxide))) near5 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 10:48 |
| S11 | 48 | electrode near6 (ZnO zinc adj oxide) near20 (magnesium Mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:14 |
| S12 | 0 | transparent adj electrode near20 MgO near20 "MgO:Mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:15 |
| S13 | 0 | transparent adj electrode near20 (ZnO near20 "ZnO:Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:15 |
| S14 | 0 | transparent adj electrode near20 ZnO near20 "ZnO:Mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:15 |
| S15 | 0 | electrode near20 ZnO near20 "ZnO:Mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:16 |
| S16 | 1 | electrode near20 ZnO near20 Mg near4 doping | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:16 |
| S17 | 2 | electrode near20 ZnO near20 (Mg near4 (doping doped) Mg-doped) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:17 |
| S18 | 4 | transparent adj electrode near10 (Mg near4 (doping doped) Mg-doped) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/21 11:18 |

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| S19 | 15 | (US-20040227141-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20030048072-\$).did. or (US-5670792-\$).did. or (JP-11070610-\$ or JP-2004259549-\$).did. or (JP-11070610-\$ or WO-200245179-\$ or US-20040166379-\$ or JP-59162133-\$ or JP-50092490-\$ or US-20040164314-\$ or EP-863555-\$ or JP-80013404-\$).did. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2005/03/21 11:30 |
| S20 | 2 | ("20040189186").PN. | US-PGPUB; DERWENT | OR | OFF | 2005/03/21 11:43 |
| S21 | 0 | ("mg-doped near6(zno zinc adj oxide) and electrode").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/03/21 11:44 |
| S22 | 7 | mg-doped near6 (zno zinc adj oxide) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 11:44 |
| S23 | 7 | mg-doped near6 (zno zinc adj oxide) and electrode and transparent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 11:55 |
| S24 | 1 | mg-doped near6 (zno zinc adj oxide) near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 11:56 |
| S25 | 7 | mg-doped near2 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 11:57 |
| S26 | 36 | electrode near4 ("zno:mg" zno zinc adj oxide) same (mg magenisum mg-doped) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 11:58 |
| S27 | 15 | electrode near4 ("zno:mg" zno zinc adj oxide) same (mg magenisum mg-doped) and transparent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:05 |

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|-----|------|---|---|----|-----|------------------|
| S28 | 0 | electrode near4 "zno:mg" same (doping dopant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:05 |
| S29 | 1463 | electrode near4 zno zinc adj oxide same (doping dopant) same (magnesium mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:06 |
| S30 | 3 | electrode near4 (zno zinc adj oxide "zno:mg") same (doping dopant) same (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:12 |
| S31 | 2 | moisture near4 electrode near4 (zno zinc adj oxide) same (magnesium mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:13 |
| S32 | 19 | (US-20040227141-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20030048072-\$ or US-20040189186-\$ or US-20020163005-\$).did. or (US-5670792-\$ or US-RE37446-\$ or US-6639354-\$).did. or (JP-11070610-\$ or JP-2004259549-\$).did. or (JP-11070610-\$ or WO-200245179-\$ or US-20040166379-\$ or JP-59162133-\$ or JP-50092490-\$ or US-20040164314-\$ or EP-863555-\$ or JP-80013404-\$).did. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2005/03/21 12:22 |
| S33 | 0 | ITO near4 (Mg magnesium) near4 moisture | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2005/03/21 12:22 |
| S34 | 1 | ITO near8 (Mg magnesium) near8 moisture | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2005/03/21 12:23 |
| S35 | 98 | doped near2 zno near20 electrode | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2005/03/21 12:23 |

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| S36 | 22 | doped near2 zno near20 electrode same transparent and moisture | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:26 |
| S37 | 20 | doped near2 zno near20 electrode same transparent and moisture and (magnesium Mg) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:27 |
| S38 | 1 | (magnesium Mg) near20 doped near2 zno near20 electrode same transparent and moisture | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:27 |
| S39 | 1 | (magnesium Mg) near20 (doping doped implanting implantation diffusion diffusing) near20 zno near20 electrode same transparent and moisture | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:28 |
| S40 | 8 | (magnesium Mg) near20 (doping doped implanting implantation diffusion diffusing) near20 (zinc adj oxide ito zno) near20 electrode same transparent and moisture | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:31 |
| S41 | 54 | ("In-doped" ZnO) near6 electrode same (Mg magnesium) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:32 |
| S42 | 25 | ("In-doped" ZnO) near6 electrode same (Mg magnesium) and transparent | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:32 |
| S43 | 7 | ("In-doped" ZnO) near6 electrode near10 (Mg magnesium) and transparent | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:58 |

EAST Search History

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| S44 | 0 | ((implantation implanting implant) near6 ZnO near6 (mg magnesium)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:59 |
| S45 | 0 | ((implantation implanting implant) near6 (zinc adj oxide ZnO) near6 (mg magnesium)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:59 |
| S46 | 0 | ((implantation implanting implant) near6 (zinc adj oxide ZnO) near20 (mg magnesium)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 12:59 |
| S47 | 0 | ((implantation implanting implant) near20 (zinc adj oxide ZnO) near20 (mg magnesium)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:00 |
| S48 | 462 | (doping doped dopant implant implantation implanting) near6 (zno zinc adj oxide) and (zinc adj oxide zno) near10 electrode | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:02 |
| S49 | 17 | (doping doped dopant implant implantation implanting) near6 (zno zinc adj oxide) near6 (mg magnesium) and (zinc adj oxide zno) near10 electrode | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:09 |
| S50 | 1 | wo-200108229\$-\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:32 |
| S51 | 72 | ZnO near2 transparent adj electrode | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:33 |

EAST Search History

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|-----|----|--|---|----|-----|------------------|
| S52 | 21 | ZnO near2 transparent adj electrode and light adj emitting.ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/21 13:33 |
| S53 | 6 | "748734".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/21 11:59 |
| S54 | 0 | neutron near4 imaging near4 substance adj abuse | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/21 14:33 |
| S55 | 6 | "748734".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 10:20 |
| S56 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | OFF | 2005/11/02 10:21 |
| S57 | 2 | "20020105279" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 10:32 |
| S58 | 0 | wo-0108229\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 10:32 |
| S59 | 0 | wo-01008229\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 10:32 |
| S60 | 3 | "6674098" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 11:29 |

EAST Search History

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|-----|----|---|---|----|-----|------------------|
| S61 | 13 | ((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541,797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/02 11:34 |
| S62 | 10 | S61 and (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 11:37 |
| S63 | 6 | S61 and (zno zinc adj oxide) near6 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 11:37 |
| S64 | 6 | S61 and (zno zinc adj oxide) near6 electrode and gan | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 11:37 |
| S65 | 0 | S61 and (zno zinc adj oxide) near6 electrode and gan and ("mg:zno" "zno:mg" ((mg magnesium) near4 dop\$3)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 11:39 |
| S66 | 4 | S61 and (zno zinc adj oxide) near6 electrode and gan and (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:20 |
| S67 | 2 | ("20020105279").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 11:53 |
| S68 | 2 | ("20010030196").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 11:53 |
| S69 | 1 | "6674098".pn. and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:29 |

EAST Search History

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|-----|----|---|---|----|----|------------------|
| S70 | 24 | zno near4 electrode and magnesium near4 dop\$3 near4 (electrode zno zinc adj oxide) and gan and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:32 |
| S71 | 0 | zno near1 electrode and magnesium near4 dop\$3 near4 (electrode zno zinc adj oxide) and gan and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:32 |
| S72 | 29 | (mg magnesium) near4 dop\$3 near4 electrode and gan and semiconductor and (zinc adj oxide zno) near6 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:33 |
| S73 | 28 | (mg magnesium) near3 dop\$3 near3 electrode and gan and semiconductor and (zinc adj oxide zno) near6 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:34 |
| S74 | 24 | (mg magnesium) near3 dop\$3 near3 electrode and gan and semiconductor and (zinc adj oxide zno) near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:35 |
| S75 | 1 | (mg magnesium) near3 dop\$3 near3 electrode near3 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:35 |
| S76 | 2 | (mg magnesium) near5 dop\$3 near5 electrode near5 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near5 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:36 |
| S77 | 2 | (mg magnesium) near8 dop\$3 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:38 |
| S78 | 0 | (mg magnesium) near8 implant\$5 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:39 |

EAST Search History

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|-----|----|--|---|----|----|------------------|
| S79 | 0 | ((mg magnesium) near8 implant\$5 near8 electrode near8 (zinc oxide zno) and gan and semiconductor and (zinc adj oxide zno) near8 electrode) ("mg:zno" "zno:mg") near4 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:40 |
| S80 | 0 | mg adj doped adj electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:41 |
| S81 | 13 | mg adj doped adj4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:45 |
| S82 | 45 | mg near4 (doping dopant implant\$5) near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 12:45 |
| S83 | 0 | mg near4 (doping dopant implant\$5) near4 electrode near4 (zinc adj oxide zno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 13:58 |
| S84 | 1 | "zno:mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:00 |
| S85 | 52 | "zno:"\$2 near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:23 |
| S86 | 12 | "zno:"\$2 near4 electrode and (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:19 |
| S87 | 13 | "zno:al" same (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:20 |

EAST Search History

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|-----|----|--|---|----|----|------------------|
| S88 | 1 | "zno:mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:25 |
| S89 | 0 | znmgo near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 14:25 |
| S90 | 0 | ("zn.sub." near1 "mg.sub."\$4 near1 "o") near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:15 |
| S91 | 0 | "zno:al" near4 electrode near4(workfunction work adj function) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:16 |
| S92 | 0 | "zno:al" near4 electrode near4 (workfunction work adj function) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:16 |
| S93 | 0 | "zno:al" near4 electrode same (workfunction work adj function) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:16 |
| S94 | 32 | "zno:al" near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:16 |
| S95 | 15 | "zno:al" near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:17 |
| S96 | 15 | ("zno:al" MZO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:21 |
| S97 | 0 | ("zno:mg" MZO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:21 |

EAST Search History

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|----------|----|---|---|----|-----|------------------|
| S98 | 0 | ("zno:mg" MgZO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:22 |
| S99 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:49 |
| S10 0 | 17 | ((("2001010867") or ("2002164570") or ("2000353820") or ("2002111059") or ("2002076356") or ("2002222991") or ("2002170993"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 15:32 |
| S10 1 | 14 | jp-2001010867\$-\$.did. jp-2002164570\$-\$.did. jp-2000353820\$-\$.did. jp-2002111059\$-\$.did. jp-2002076356\$-\$.did. jp-2002222991\$-\$.did. jp-2002170993\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 15:34 |
| S10 2 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:50 |
| S10 3 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:50 |
| S10 4 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO MgxZn1-xO Mg1-xZnxO) near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:50 |
| S10 5 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO "MgxZn1-xO" "Mg1-xZnxO") near4 electrode and semiconductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:58 |
| S10 6 | 2 | ("20020126719").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/02 15:55 |

EAST Search History

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|----------|-------|--|---|----|----|------------------|
| S10 7 | 3 | ("zno:mg" MgZnO ZnOMg ZnMgO "MgxZn1-xO" "Mg1-xZnxO") near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/02 15:58 |
| S10 8 | 10833 | (zno zinc adj oxide ito indium adj tin adj oxide ito) near4 (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:24 |
| S10 9 | 10833 | (zno zinc adj oxide (indium adj tin adj oxide) ito) near4 (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:24 |
| S11 0 | 10833 | (zno (zinc adj oxide) (indium adj tin adj oxide) ito) near4 (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:25 |
| S11 1 | 7117 | (zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:25 |
| S11 2 | 1880 | (zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:25 |
| S11 3 | 220 | (zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:28 |
| S11 4 | 167 | (zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm. and @ad<"20030226" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:30 |
| S11 5 | 165 | ((zno (zinc adj oxide) (indium adj tin adj oxide) ito) near2 (mg magnesium).ti,ab,clm. and electrode.ti,ab,clm. and @ad<"20030226") not rohm.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:37 |
| S11 6 | 0 | ("mg:ito" "ito:mg" "zno:mg" "mg:zno") and S115 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:41 |

EAST Search History

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|----------|-----|---|---|----|-----|------------------|
| S11 7 | 12 | (zinc-magnesium adj oxide and zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:42 |
| S11 8 | 1 | (zinc-magnesium adj oxide and zinc adj oxide) and S115 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:43 |
| S11 9 | 1 | (zinc-magnesium adj oxide and zinc adj oxide) and S115 and magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:44 |
| S12 0 | 1 | (zinc-magnesium adj oxide and zinc adj oxide) and S115 and (mg magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:45 |
| S12 1 | 2 | (zinc-magnesium adj oxide and zinc adj oxide) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:46 |
| S12 2 | 0 | "mg:ito" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:47 |
| S12 3 | 0 | "ito:mg" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:47 |
| S12 4 | 3 | magnesium adj indium adj tin adj oxide | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:48 |
| S12 5 | 0 | erosion near4 zinc adj oxide and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:55 |
| S12 6 | 325 | erosion and zinc adj oxide and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:56 |

EAST Search History

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|----------|-----|---|---|----|-----|------------------|
| S12 7 | 485 | erosion and (zno zinc adj oxide) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:56 |
| S12 8 | 13 | erosion near8 (zno zinc adj oxide) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:56 |
| S12 9 | 9 | erosion near8 (zno zinc adj oxide) same electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:57 |
| S13 0 | 0 | erosion near8 (zno zinc adj oxide) same electrode same magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:57 |
| S13 1 | 0 | erosion near8 (ito indium adj tin adj oxide zno zinc adj oxide) same electrode same magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 16:58 |
| S13 2 | 0 | erosion near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 16:58 |
| S13 3 | 1 | (deterioration erosion) near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:00 |
| S13 4 | 2 | (deterioration erosion corrosion) near8 (ito (indium adj tin adj oxide) zno (zinc adj oxide)) same electrode same magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:04 |
| S13 5 | 17 | transparent near2 electrode and (mgzno znmgo) and zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:11 |
| S13 6 | 6 | transparent near2 electrode near15 (mgzno znmgo) and zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:15 |

EAST Search History

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|----------|-----|---|---|----|----|------------------|
| S13 7 | 2 | transparent near2 electrode near15 "mg-doped" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:16 |
| S13 8 | 140 | transparent near2 electrode near15 (magnesium-doped "mg-doped" magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:17 |
| S13 9 | 52 | transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:17 |
| S14 0 | 11 | transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium) near8 (ito zno (zinc adj oxide) indium-tin-oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:29 |
| S14 1 | 4 | transparent near1 electrode near8 (magnesium-doped "mg-doped" magnesium) near8 (ito zno (zinc adj oxide) indium-tin-oxide) and (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:30 |
| S14 2 | 0 | electrode near10 (zinc adj oxide zno) same (magnesium mg) same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:31 |
| S14 3 | 268 | electrode near10 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:32 |
| S14 4 | 27 | electrode near10 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing) and (contact adj resistance) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:32 |
| S14 5 | 10 | electrode near4 (zinc adj oxide zno) and (magnesium mg) and (anneal annealing) and (contact adj resistance) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:37 |
| S14 6 | 10 | electrode near4 (zinc adj oxide zno) and (magnesium mg) near4 electrode and (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:42 |

EAST Search History

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|----------|-----|--|---|----|-----|------------------|
| S14 7 | 88 | electrode near4 (zinc adj oxide zno ito indium adj tin adj oxide) and (magnesium mg) near4 electrode and (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:42 |
| S14 8 | 1 | electrode near4 (zinc adj oxide zno ito indium adj tin adj oxide) same ((magnesium mg) near4 electrode) same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:45 |
| S14 9 | 5 | "717557".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:45 |
| S15 0 | 2 | ("20040113156").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 17:46 |
| S15 1 | 0 | (transparent adj electrode near6 ito near6 zno near6 "and the like") same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/08 17:47 |
| S15 2 | 0 | (transparent adj electrode near6 ito near6 zno near6 "and the like") same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:47 |
| S15 3 | 0 | (transparent adj electrode near6 ito near6 zno near6 "such as") same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:48 |
| S15 4 | 0 | (transparent adj electrode near6 ito near6 zno) same (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:48 |
| S15 5 | 490 | (transparent adj electrode near10 ito near10 zno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:48 |
| S15 6 | 2 | (transparent adj electrode near10 ito near10 zno) and magnesium near6 (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:51 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S15 7 | 150 | (zno zinc adj oxide) near6 (anneal annealing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:53 |
| S15 8 | 8 | (zno zinc adj oxide) near6 (anneal annealing) same (magnesium Mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 17:54 |
| S15 9 | 4 | (zno zinc adj oxide) near6 (anneal annealing) with (magnesium Mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 18:00 |
| S16 0 | 17 | (zno zinc adj oxide) with (anneal annealing) with (magnesium Mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/08 18:00 |
| S16 1 | 11021 | charge adj pump.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/09 15:03 |
| S16 2 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | OFF | 2006/01/29 15:33 |
| S16 3 | 710 | electrode near4 (zno zinc adj oxide) | US-PGPUB | OR | ON | 2006/01/29 15:34 |
| S16 4 | 212 | electrode near4 (zno zinc adj oxide) and light adj emitting.ti,ab,clm. | US-PGPUB | OR | ON | 2006/01/29 15:34 |
| S16 5 | 355 | electrode near4 (zno zinc adj oxide) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 15:34 |
| S16 6 | 46 | electrode near1 (zno zinc adj oxide) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 15:35 |
| S16 7 | 2 | (magnesium mg) near6 (electrode near1 (zno zinc adj oxide)) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 15:36 |

EAST Search History

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|----------|----|---|---|----|-----|------------------|
| S16 8 | 46 | (electrode near1 (zno zinc adj oxide)) and light adj emitting.ti,ab, clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 15:47 |
| S16 9 | 12 | ((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541.797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/29 15:48 |
| S17 0 | 13 | ((("6,416,888") or ("6,057,561") or ("5,625,202") or ("6,320,207") or ("5,804,834") or ("6,541,797") or ("6,806,503") or ("20020030196") or ("20040235212") or ("20040104392") or ("20040051109") or ("20030209723") or ("20020126719"))).PN. | US-PGPUB; USPAT | OR | OFF | 2006/01/29 15:58 |
| S17 1 | 1 | MgZnO near1 electrode and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:00 |
| S17 2 | 1 | MgZnO near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:00 |
| S17 3 | 1 | (Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:01 |
| S17 4 | 44 | (zno Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:01 |
| S17 5 | 9 | (zno Mg:ZnO ZnO:Mg MgZnO) near1 electrode and (optoelectronic laser light adj emitting).ti,ab,clm. and magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:10 |

EAST Search History

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|----------|-----|---|---|----|----|------------------|
| S17 6 | 116 | resistivity near2 zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:10 |
| S17 7 | 69 | resistivity near1 zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:10 |
| S17 8 | 3 | resistivity near1 zno and resistivity near1 ito | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:12 |
| S17 9 | 0 | resistivity near1 zno and resistivity near1 ito and (magnesium mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:12 |
| S18 0 | 12 | resistivity near1 zno and (magnesium mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:31 |
| S18 1 | 2 | jp-2001210867\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 16:33 |
| S18 2 | 2 | jp-2002164570\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:03 |
| S18 3 | 2 | jp-2000353820\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:05 |
| S18 4 | 2 | jp-2002111059\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:06 |
| S18 5 | 2 | jp-2002076356\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:07 |

EAST Search History

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|----------|---|-------------------------------------|---|----|-----|------------------|
| S18 6 | 2 | jp-2002222991\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:08 |
| S18 7 | 2 | jp-2002170993\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:15 |
| S18 8 | 2 | jp-2002170993\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:22 |
| S18 9 | 2 | "20020105279" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 17:36 |
| S19 0 | 2 | ("6674098").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/29 17:36 |
| S19 1 | 2 | ("20030231683").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/29 18:12 |
| S19 2 | 2 | ("5451474").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/29 18:16 |
| S19 3 | 0 | magnesium and "20040061101" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/29 18:17 |
| S19 4 | 0 | magnesium and "20040061101" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 18:17 |
| S19 5 | 0 | (mg magnesium) and "20040061101" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 18:21 |

EAST Search History

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|----------|------|--|---|----|----|------------------|
| S19 6 | 17 | zno near1 electrode and (light adj emitting laser) and gan | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/29 18:22 |
| S19 9 | 1567 | zno near10 ito near10 (transparency transparent) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:34 |
| S20 0 | 791 | zno near5 ito near5 (transparency transparent) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:34 |
| S20 1 | 350 | zno near5 ito near5 (transparency transparent) and light adj emitting | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:34 |
| S20 2 | 213 | zno near5 ito near5 (transparency transparent) and light adj emitting. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:37 |
| S20 3 | 6 | magnesium same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:42 |
| S20 4 | 6 | (magnesium mgzno) same (zno near5 ito near5 (transparency transparent)) and light adj emitting. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:43 |
| S20 5 | 6 | (magnesium mgzno "mg:zno" "zno:mg") same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:43 |
| S20 6 | 30 | ("Mg" magnesium mgzno "mg:zno" "zno:mg") same (zno near5 ito near5 (transparency transparent)) and light adj emitting.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 10:43 |
| S20 7 | 13 | (erosion eroding erode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmggo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:29 |

EAST Search History

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|----------|------|---|---|----|----|------------------|
| S20 8 | 1 | (erosion eroding erode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmgo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:30 |
| S20 9 | 6 | (erosion eroding erode corrosion corroding corrode) near6 (zno mgzno "Mg:ZnO" "ZnO:Mg" znmgo mgzno "Mg.sub."\$3 near1 "Zn.sub."\$3 near1 O) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:38 |
| S21 0 | 1573 | electrode near20 zno and (light adj emitting laser optoelectronic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:39 |
| S21 1 | 7 | (electrode near20 zno) same (erosion eroding erode corrosion corrode corroding) and (light adj emitting laser optoelectronic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:40 |
| S21 2 | 1 | (electrode near20 zno) same (erosion eroding erode corrosion corrode corroding) same ("Mg" magnesium) and (light adj emitting laser optoelectronic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:40 |
| S21 3 | 1 | (electrode near20 zno) same (erosion eroding erode corrosion corrode corroding) same ("Mg" magnesium) and (light adj emitting laser optoelectronic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:41 |
| S21 4 | 27 | (electrode near20 zno) same (surface protect protection protecting coat coated coating) same ("Mg" magnesium) and (light adj emitting laser optoelectronic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 11:41 |

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S21 5 | 54 | (US-20020025440-\$ or US-20020030196-\$ or US-20020056838-\$ or US-20020105279-\$ or US-20020126719-\$ or US-20020163005-\$ or US-20030048072-\$ or US-20030132449-\$ or US-20030209723-\$ or US-20040051109-\$ or US-20040104392-\$ or US-20040113156-\$ or US-20040164314-\$ or US-20040166379-\$ or US-20040189186-\$ or US-20040227141-\$ or US-20040235212-\$ or US-20050224825-\$).did. or (US-5625202-\$ or US-5670792-\$ or US-5804834-\$ or US-6057561-\$ or US-6259016-\$ or US-6320207-\$ or US-6416888-\$ or US-6541797-\$ or US-6639354-\$ or US-6806503-\$ or US-RE37446-\$ or US-5135817-\$ or US-5002837-\$).did. or (EP-1363334-\$).did. or (JP-11070610-\$ or JP-2000353820-\$ or JP-2001210867-\$ or JP-2002076356-\$ or JP-2002111059-\$ or JP-2002164570-\$ or JP-2002170993-\$ or JP-2002222991-\$ or JP-2004259549-\$).did. or (JP-50092490-\$ or JP-80013404-\$ or JP-59162133-\$ or EP-863555-\$ or JP-11070610-\$ or WO-200108229-\$ or JP-2001210867-\$ or JP-2002111059-\$ or WO-200245179-\$ or JP-2002076356-\$ or JP-2002222991-\$ or US-20040164314-\$ or US-20040166379-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/01/30 13:24 |
| S21 6 | 34 | S215 and (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 13:30 |
| S21 7 | 23 | (corrosion corrode corroding eroding erosion erode) near10 (zno zinc adj oxide) near10 (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 13:35 |

EAST Search History

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|----------|----|---|---|----|----|------------------|
| S21 8 | 1 | (mgzno znmgo ("Zn.sub."\$3 near1 "Mg.sub."\$3 near1 "o")) near6 (coating coat coated erosion eording erode corrode corrosion corroding) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 13:39 |
| S22 2 | 13 | (coat coated coating) near10 (zno zinc oxide) near10 (magnesium "Mg") and electrode near10 (zno mgzno znmgo) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 13:40 |
| S22 3 | 22 | S215 and electrode near4 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:15 |
| S22 4 | 8 | S215 and (electrode near4 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:18 |
| S22 5 | 0 | S215 and (moisture near4 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:18 |
| S22 6 | 2 | S215 and (moisture near10 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:28 |
| S22 7 | 2 | S215 and (corrosion near10 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:30 |
| S22 8 | 0 | S215 and (corrode near10 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:30 |
| S22 9 | 0 | S215 and (corroding near10 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:30 |
| S23 0 | 1 | S215 and (erosion near10 (zno zinc adj oxide)) same (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/30 14:30 |

EAST Search History

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|----------|------|---|---|----|-----|------------------|
| S23 1 | 308 | sakai.in. and zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:26 |
| S23 2 | 70 | sakai.in. and zno and magnesium | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:26 |
| S23 3 | 11 | sakai.in. and zno and magnesium and electrode and light adj emitting | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:30 |
| S23 4 | 1 | sakai.in. and zno and magnesium and electrode and light adj emitting and gan | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:28 |
| S23 5 | 0 | sakai.in. and zno and magnesium and electrode and light adj emitting and gan and zno near20 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:28 |
| S23 6 | 2 | jp-2002164570\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:31 |
| S23 7 | 2 | ("20030209723").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/31 08:34 |
| S23 8 | 8297 | (Mg magnesium) near6 (protect protection protecting erosion eroding erode corrode corroding corrosion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:35 |
| S23 9 | 44 | (Mg magnesium) near10 (protect protection protecting erosion eroding erode corrode corroding corrosion) near10 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:36 |
| S24 0 | 16 | (Mg magnesium) near5 (protect protection protecting erosion eroding erode corrode corroding corrosion) near5 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:03 |

EAST Search History

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|----------|-------|---|---|----|----|------------------|
| S24 1 | 0 | (Mg magnesium) near3 (protect protection protecting erosion eroding erode corrode corroding corrosion) near3 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 08:36 |
| S24 2 | 11664 | (Mg magnesium) near5 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:04 |
| S24 3 | 36 | (Mg magnesium) near1 (doped doping) near5 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:04 |
| S24 4 | 31 | (Mg magnesium) near1 (doped doping) near1 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:04 |
| S24 5 | 2 | (Mg magnesium) near1 (doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkaline) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:06 |
| S24 6 | 1 | (Mg magnesium alkaline-earth) near1 (doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:07 |
| S24 7 | 1 | (Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:08 |
| S24 8 | 2 | (Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:09 |
| S24 9 | 2 | ((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:10 |

EAST Search History

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|----------|-----|---|---|----|----|------------------|
| S25 0 | 2 | ((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) same (corrosion corroding corrode erode erosion eroding protect protecting protection alkali acid) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:13 |
| S25 1 | 12 | ((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)). ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:10 |
| S25 2 | 5 | ((Mg magnesium alkaline-earth) near1 (coat coating coated doped doping) near1 (zno zinc adj oxide)) and (corrosion corroding corrode erode erosion eroding protect protecting protection alkali acid) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:17 |
| S25 3 | 1 | ((Mg magnesium alkaline-earth) near1 (coat coating coated) near1 (zno zinc adj oxide)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:18 |
| S25 4 | 120 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:18 |
| S25 5 | 33 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:24 |
| S25 6 | 9 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) same (corrosion erosion corrode erode corroding eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:19 |
| S25 7 | 1 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and electrode near6 (zno zinc adj oxide mgzno znmgo magnesium near2 zno "mg:zno" "zno:mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:26 |

EAST Search History

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|----------|----|--|---|----|----|------------------|
| S25 8 | 33 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:26 |
| S25 9 | 1 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:28 |
| S26 0 | 5 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting "LED" laser optoelectronic LCD liquid adj crystal pixel adj electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:30 |
| S26 1 | 5 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) and (light-emitting light adj emitting "LED" laser optoelectronic LCD liquid adj crystal pixel adj electrode transparent adj electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:31 |
| S26 2 | 33 | ((Mg magnesium alkaline-earth) near6 (coat coating coated) near6 (zno zinc adj oxide)) and (corrosion erosion corrode erode corroding eroding protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:46 |
| S26 3 | 1 | mzo and zno and (erode eroding erosion protect protecting protection corrosion corroding corrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:58 |
| S26 4 | 7 | mzo and zno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 09:59 |

EAST Search History

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|----------|------|---|---|----|----|------------------|
| S26 5 | 91 | zno adj electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:30 |
| S26 6 | 0 | zno adj electrode near10 (magnesium "Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:30 |
| S26 7 | 0 | "zno/mzo" adj electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:30 |
| S26 8 | 0 | "mzo" adj electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:30 |
| S26 9 | 1 | "mzo" near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:31 |
| S27 0 | 8112 | ("Mg.sub."\$3 "Zn.sub."\$3 "O") near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:32 |
| S27 1 | 1 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O") near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:36 |
| S27 2 | 1 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg") near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:37 |
| S27 3 | 2 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj doped adj zno) near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:38 |
| S27 4 | 1 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno) near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:39 |

EAST Search History

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|----------|------|--|---|----|----|------------------|
| S27 5 | 1 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno "mzo/zno") near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:39 |
| S27 6 | 2 | ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O" "ZnO:Mg" Mg adj coated adj zno "mzo/zno" mzo) near10 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 10:42 |
| S27 7 | 2313 | magnesium and transparent near3 (electrode film) near3 conductive | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:07 |
| S27 8 | 63 | magnesium near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:15 |
| S27 9 | 63 | (magnesia magnesium) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:16 |
| S28 0 | 96 | (magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:16 |
| S28 1 | 67 | (magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid crystal LCD pixel adj electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:17 |
| S28 2 | 59 | (magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid adj crystal LCD pixel adj electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:18 |

EAST Search History

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|----------|-----|--|---|----|-----|------------------|
| S28 3 | 11 | (magnesia magnesium mgo) near3 (coat coated coating) and transparent near3 (electrode film) near3 conductive and (light-emitting light adj emitting laser optoelectronic liquid adj crystal LCD pixel adj electrode) and electrode near10 (zno mzo mgo "zno:mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:36 |
| S28 4 | 13 | (mg-doped mg-doping mg adj doping mg-coated mg adj coating) near2 (zno zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:50 |
| S28 5 | 21 | "6316807" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:51 |
| S28 6 | 105 | "5998833" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/31 12:51 |
| S28 7 | 4 | ((("6316807") or ("5998883")).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/31 12:52 |
| S28 8 | 2 | ("6674098").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/15 13:57 |
| S28 9 | 3 | (magnesium Mg) near3 (corrosion erosion) and (transparent adj conductive adj oxide TCO) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 13:59 |
| S29 0 | 3 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (transparent adj conductive adj oxide TCO) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:00 |
| S29 1 | 143 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (transparent adj conductive adj oxide TCO ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:01 |

EAST Search History

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|----------|-----|---|---|----|----|------------------|
| S29 2 | 140 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) and (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:01 |
| S29 3 | 0 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) near3 (ZnO zinc adj oxide) and (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:02 |
| S29 4 | 12 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) same (ZnO zinc adj oxide) and (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:03 |
| S29 5 | 12 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection) same (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:05 |
| S29 6 | 10 | (magnesium Mg) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection). ti,ab,clm. and (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:13 |
| S29 7 | 526 | (magnesium Mg) near3 (acid acidity alkaline alkalinity corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab, clm. and (ZnO zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:18 |
| S29 8 | 270 | (magnesium Mg) near3 (acid acidity alkaline alkalinity corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab, clm. and (ZnO zinc adj oxide).ti,ab, clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:19 |
| S29 9 | 0 | (magnesium Mg) near3 (acid acidity alkaline alkalinity) near3 (corroding corrode corrosion erosion eroding erode protect protecting protection). ti,ab,clm. and (ZnO zinc adj oxide). ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:19 |
| S30 0 | 3 | (magnesium Mg) near6 (acid acidity alkaline alkalinity) near6 (corroding corrode corrosion erosion eroding erode protect protecting protection). ti,ab,clm. and (ZnO zinc adj oxide). ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:19 |

EAST Search History

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|----------|----|---|---|----|----|------------------|
| S30 1 | 8 | (magnesium Mg) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:21 |
| S30 2 | 8 | (magnesium Mg magnesium adj oxide Mg adj oxide) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:21 |
| S30 3 | 76 | (MgZnO magnesium adj zinc oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:22 |
| S30 4 | 51 | (MgZnO magnesium adj zinc oxide MZO) near6 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:23 |
| S30 5 | 0 | (MgZnO magnesium adj zinc adj oxide MZO) near6 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:23 |
| S30 6 | 0 | (MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. and (ZnO zinc adj oxide).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:23 |
| S30 7 | 0 | (MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:23 |

EAST Search History

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|----------|--------|---|---|----|----|------------------|
| S30 8 | 0 | (MgZnO magnesium adj zinc adj oxide MZO) near12 (acid acidity alkaline alkalinity) near12 (corroding corrode corrosion erosion eroding erode protect protecting protection) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:27 |
| S30 9 | 0 | (grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:28 |
| S31 0 | 0 | (grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magneisum adj zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:29 |
| S31 1 | 0 | (grading graded) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:29 |
| S31 2 | 7 | (grading graded concentration) near6 ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 14:35 |
| S31 3 | 5 | ("Mg:ZnO" "ZnO:Mg" MZO MgZnO magnesium adj zinc adj oxide) near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:32 |
| S31 4 | 19 | (conductivity resistsivity) near4 ITO and (resistivity conductivity) near4 ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:33 |
| S31 5 | 25 | (conductivity resistivity) near4 ITO and (resistivity conductivity) near4 ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:47 |
| S31 6 | 144137 | n-type electrode near4 ZnO near6 light-emitting.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:48 |
| S31 7 | 0 | (n-electrode n-type adj electrode) near6 ZnO near6 light-emitting.ti, ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:49 |

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S31 8 | 5 | (n-electrode n-type adj electrode) near6 ZnO and light-emitting.ti,ab, clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:50 |
| S31 9 | 7 | (n-electrode n-type adj electrode) near6 ZnO and (laser light-emitting).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:51 |
| S32 0 | 13 | (n-electrode n-type adj electrode) near6 ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 15:53 |
| S32 1 | 13 | (n-electrode n-type adj electrode) near6 (zinc adj oxide ZnO) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 16:15 |
| S32 2 | 2 | "20020105279".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:04 |
| S32 3 | 49 | magnesium near4 (acid alkaline) near4 (protecti\$2 protect) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:05 |
| S32 4 | 7 | magnesium near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:24 |
| S32 5 | 2 | ("6483776").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/15 17:17 |
| S32 6 | 10 | (Mg magnesium) near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:26 |
| S32 7 | 10 | (Mg magnesium) near4 (acid alkaline) near4 (protecti\$2 protect) and (zinc adj oxide zno "Mg:ZnO" "ZnO:Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:28 |

EAST Search History

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|----------|----|--|---|----|----|------------------|
| S32 8 | 41 | (Mg magnesium) near8 (acid alkaline) near8 (protecti\$2 protect) and (zinc adj oxide zno "Mg:ZnO" "ZnO:Mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/15 17:28 |
| S32 9 | 1 | ((MZO MgZnO) near4 ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:03 |
| S33 0 | 1 | ((MZO MgZnO Mg-doped adj ZnO) near4 ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:03 |
| S33 1 | 1 | ((MZO MgZnO Mg-doped adj ZnO magnesium adj zinc adj oxide) near4 ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:04 |
| S33 2 | 1 | (MZO MgZnO Mg-doped adj ZnO magnesium adj zinc adj oxide) near4 (indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:04 |
| S33 3 | 3 | (MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide))) near4 (indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:06 |
| S33 4 | 3 | (MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:07 |
| S33 5 | 3 | (MZO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:07 |
| S33 6 | 3 | (MZO ZnMgO MgZnO Mg-doped adj ZnO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:07 |

EAST Search History

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|----------|----|---|---|----|-----|------------------|
| S33 7 | 26 | (MZO ZnMgO MgZnO Mg-doped adj ZnO Zn-doped MgO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:08 |
| S33 8 | 3 | (MZO ZnMgO MgZnO Mg-doped adj ZnO Zn-doped adj MgO (magnesium near2 (zinc adj oxide)) "ZnO:Mg" "Mg:ZnO") near4 (indium-tin-oxide indium adj tin adj oxide ITO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:11 |
| S33 9 | 2 | ("6867539").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 18:35 |
| S34 0 | 14 | (Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 18:36 |
| S34 1 | 1 | ((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 18:36 |
| S34 2 | 2 | ((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) same electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 18:37 |
| S34 3 | 9 | ((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 18:40 |
| S34 4 | 2 | ((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) and (anode cathode electrode) with ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:41 |
| S34 5 | 23 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO) and (anode cathode electrode) with ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 18:42 |

EAST Search History

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|----------|------|--|---|----|----|------------------|
| S34 6 | 18 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 19:16 |
| S34 7 | 2 | "20050136572" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 19:03 |
| S34 8 | 2040 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 19:19 |
| S34 9 | 20 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 19:34 |
| S35 0 | 20 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO and (light adj emitting light-emitting laser (transparent near1 electrode)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 19:35 |
| S35 1 | 25 | ((((Mg-doped Mg adj doped Mg adj doping Mg-doping) near4 ZnO) MZO MgZnO "ZnO:Mg" "Mg:ZnO" (rare-earth rare adj earth) near2 (doping doped) near2 ZnO) and (anode cathode electrode) with ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:31 |
| S35 2 | 0 | (MZO ZnO MgZnO) near6 "Au/Ni" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:32 |
| S35 3 | 1115 | (MZO ZnO MgZnO) near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:32 |

EAST Search History

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| S35 4 | 0 | (MZO ZnO MgZnO) near3 electrode and electrode near6 "Au/Ni" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:32 |
| S35 5 | 573 | (MZO ZnO MgZnO) near3 electrode and electrode near6 (metal metallic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:32 |
| S35 6 | 314 | (MZO ZnO MgZnO) near3 electrode and electrode near2 metal | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:33 |
| S35 7 | 66 | (MZO ZnO MgZnO) near3 electrode and electrode near2 metal and light-emitting | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:50 |
| S35 8 | 2 | mondt.xa. and ito near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:51 |
| S35 9 | 12 | mondt.xa. and (transparent ito) near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:59 |
| S36 0 | 10508 | (transparent ito) near3 electrode and metal near2 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 20:59 |
| S36 1 | 293 | (transparent ito) near3 electrode and metal near2 electrode and light-emitting.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 21:00 |
| S36 2 | 154 | (ito) near3 electrode and metal near2 electrode and light-emitting. ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 21:00 |
| S36 3 | 156 | (ito zno) near3 electrode and metal near2 electrode and light-emitting. ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 21:00 |

EAST Search History

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| S36 4 | 16 | (ito zno) near3 electrode.ti,ab,clm. and metal near2 electrode and light-emitting.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 21:41 |
| S36 5 | 14 | metal adj contact near6 (transparent adj electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:27 |
| S36 6 | 0 | "ITO/MgZnO/ZnO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:27 |
| S36 7 | 0 | "ITO/MZO/ZnO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:27 |
| S36 8 | 0 | "ZnO/MZO/ITO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:28 |
| S36 9 | 0 | "ZnO/MgZnO/ITO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:28 |
| S37 0 | 0 | "ZnO-MgZnO-ITO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:28 |
| S37 1 | 0 | "ITO-MgZnO-ZnO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 22:28 |
| S37 2 | 209 | rare adj earth near3 (zinc adj oxide zno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:16 |
| S37 3 | 107 | rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:16 |

EAST Search History

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| S37 4 | 34 | rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:16 |
| S37 5 | 0 | rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode and mzo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:17 |
| S37 6 | 0 | rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode and mgzno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:17 |
| S37 7 | 34 | rare adj earth near3 (zinc adj oxide zno) and (magnesium mg) and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:28 |
| S37 8 | 2406 | rare adj earth and zno and (acid alkaline) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:30 |
| S37 9 | 0 | rare adj earth near3 zno and (acid alkaline) near4 (protecti\$2 protect corrosion corroding erosion eroding corrode erode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:31 |
| S38 0 | 0 | rare adj earth near3 zno and (acid alkaline) near4 (resistance protecti\$2 protect corrosion corroding erosion eroding corrode erode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 00:31 |
| S38 1 | 779 | (501/69).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 11:23 |
| S38 2 | 175 | S381 and (zinc adj oxide zno) and (rare adj earth magnesium mno mgzno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:24 |
| S38 3 | 1 | S381 and (zinc adj oxide zno) and (rare adj earth magnesium mno mgzno) near10 (corrode corrosion corroding protecti\$2 protect) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:40 |

EAST Search History

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|----------|-----|---|---|----|-----|------------------|
| S38 4 | 1 | S381 and (rare adj earth magnesium mno mgzno) near10 (corrode corrosion corroding protecti\$2 protect) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:40 |
| S38 5 | 3 | S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:41 |
| S38 6 | 0 | S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and transparent near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:41 |
| S38 7 | 1 | S381 and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and (transparent near3 electrode ito zno mgzno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:43 |
| S38 8 | 11 | "501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode) and (transparent near3 electrode ito zno mgzno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:48 |
| S38 9 | 243 | "501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode acid alkaline) and (transparent near3 electrode ito zno mgzno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:50 |
| S39 0 | 2 | "501"/\$7.ccls. and (magnesium rare adj earth) with (protecti\$1 protect corrosion corroding corrode acid alkaline) and (transparent near3 electrode) and (ito zno mgzno) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 11:50 |
| S39 1 | 2 | jp-2001017486\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 13:19 |
| S39 2 | 0 | jp-20022222991\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 13:20 |
| S39 3 | 2 | jp-20022222991\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 13:24 |

EAST Search History

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|----------|-----|--|---|----|-----|------------------|
| S39 4 | 2 | ("20020030196").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 14:17 |
| S39 5 | 0 | ("(MZOMgZnO)near2(transparentnear1electrode)").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 14:18 |
| S39 6 | 1 | (MZO MgZnO) near2 (transparent near1 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:19 |
| S39 7 | 7 | (MZO MgZnO) near10 (transparent near1 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:20 |
| S39 8 | 7 | (MZO MgZnO) near10 (transparent near3 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:20 |
| S39 9 | 128 | (MZO MgZnO magnesium) near10 (transparent near3 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:21 |
| S40 0 | 9 | (MZO MgZnO ((Mg magnesium) near2 ZnO)) near10 (transparent near3 electrode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:24 |
| S40 1 | 2 | ("20020126719").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 14:25 |
| S40 2 | 2 | ("20030209723").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 14:27 |
| S40 3 | 68 | (MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 14:29 |

EAST Search History

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|----------|----|---|---|----|----|------------------|
| S40 4 | 89 | (MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:29 |
| S40 5 | 14 | (MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:36 |
| S40 6 | 0 | (MgO magnesium adj oxide magnesia) near4 (transparent near1 electrode) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 14:33 |
| S40 7 | 9 | (MgO magnesium adj oxide magnesia) near4 (ZnO zinc adj oxide) with (corrosion corrode corroding erosion eroding erode protect protection protecting) and (light-emitting light adj emitting laser) and (corrosion corrode corroding) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 15:46 |
| S40 8 | 0 | jp-20020164570\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 15:46 |
| S40 9 | 2 | "20020164570".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 15:49 |
| S41 0 | 2 | jp-2002164570\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 16:46 |

EAST Search History

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|----------|--------|---|---|----|-----|------------------|
| S41 1 | 17905 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (372/43.01) or (372/46.01) or (372/46.013) or (372/46.015) or (372/29.013) or (349/42) or (349/43) or (349/44) or (349/45) or (349/46) or (349/47) or (349/48) or (349/49) or (349/50) or (349/51) or (349/52) or (349/53)). CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 16:47 |
| S41 2 | 1 | S411 and (zinc adj oxide zno) and ("mg:zno" "zno:mg" (mg-doped near1 zno) "mg" near1 (doped doping) near1 (zinc oxide zno)) and transparent near2 electrode and (light-emitting light adj emitting laser display) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/17 16:50 |
| S41 3 | 1 | S411 and (zinc adj oxide zno) and ("mg:zno" "zno:mg" (mg-doped near1 zno) "mg" near1 (doped doping) near1 (zinc oxide zno)) and transparent near2 electrode and (light-emitting light adj emitting laser display) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/17 16:50 |
| S41 4 | 0 | (zno zinc adj stannate) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 13:39 |
| S41 5 | 0 | (zno zinc adj stannate "zn.sub."\$1 near1 "sno.sub.4" mzo) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 13:41 |
| S41 6 | 9 | (zno zinc adj stannate "zn.sub."\$1 near1 "sno.sub.4" mzo) near4 ((electrode near2 p-type) p-electrode) and ("Group-III" near3 nitride GaN GaAlN AlN AlGaN InGaAlN GaInAlN GaAlInN InAlGaN AlGaInN AlInGaN) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 13:47 |
| S41 7 | 151693 | p-type dopant near10 (Mg near10 Mn) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 13:48 |
| S41 8 | 13 | p-type adj dopant near10 (Mg near10 Mn) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 14:57 |

EAST Search History

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| S41 9 | 37 | p-type adj dopant near10 (zno mzo) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 14:58 |
| S42 0 | 0 | p-type adj dopant near10 (zno mzo) near10 mg | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 14:58 |
| S42 1 | 5 | p-type near4 (zno mzo) near10 mg | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/15 15:02 |
| S42 2 | 112 | (zno zinc adj oxide) same (mg magnesium) same electrode and (GaN "III-V") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 17:26 |
| S42 3 | 50 | (zno zinc adj oxide) with (mg magnesium) same electrode and (GaN "III-V") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 17:28 |
| S42 4 | 27 | (zno zinc adj oxide) with (mg magnesium) same electrode and (GaN "III-V") and @ad<"20031230" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 17:28 |
| S42 5 | 510 | zno near2 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 17:47 |
| S42 6 | 1 | zno near2 electrode with mg-doped | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 17:48 |
| S42 7 | 1 | zno near2 electrode with ((mg magnesium) near2 (doped doping)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 17:48 |
| S42 8 | 79 | zno adj electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 17:54 |

EAST Search History

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| S429 | 2 | ("20020126719").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 18:13 |
| S430 | 2 | magnesium adj zincate | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/09 18:14 |
| S431 | 1 | ((magnesium adj zincate) ("Mg.sub." "\$3 near1 "Zn.sub."\$3 near1 O)) with electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:27 |
| S432 | 0 | ((magnesium adj zincate) ("Mg.sub." "\$3 near1 "Zn.sub."\$3 near1 O)) with electrode and GaN | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:31 |
| S433 | 0 | ((magnesium adj zincate) ("Mg.sub." "\$3 near1 "Zn.sub."\$3 near1 O)) with (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:32 |
| S434 | 0 | ((magnesium adj zincate) ("Mg.sub." "\$3 near1 "Zn.sub."\$3 near1 O)) with (buffer) with sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:33 |
| S435 | 2 | (magnesium adj zinc adj oxide (magnesium adj zincate) ("Mg.sub." "\$3 near1 "Zn.sub."\$3 near1 O)) with (buffer) with sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:42 |
| S436 | 0 | jp-200168485\$-\$\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:51 |
| S437 | 5 | MgZnO near3 buffer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:51 |
| S438 | 5 | MgZnO near3 buffer and sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 18:51 |

EAST Search History

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|----------|-----|--|---|----|----|------------------|
| S43 9 | 84 | MgO near4 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:16 |
| S44 0 | 94 | ZnO near4 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:19 |
| S44 1 | 420 | sapphire near4 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:19 |
| S44 2 | 238 | sapphire near2 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:21 |
| S44 3 | 5 | c-plane adj sapphire near2 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:28 |
| S44 4 | 37 | c-plane adj sapphire and sapphire near2 (lattice adj constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:35 |
| S44 5 | 0 | zno near6 buffer near6 mgzno near6 sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:35 |
| S44 6 | 0 | zno with buffer with mgzno with sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:36 |
| S44 7 | 5 | buffer with mgzno with sapphire | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 19:36 |
| S44 8 | 0 | "20050224825".pn. and buffer near4 ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:39 |

EAST Search History

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| S44 9 | 0 | "20050224825".pn. and buffer and ("Mg.sub."\$3 near1 "Zn.sub."\$3 near1 "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:39 |
| S45 0 | 2 | "20050224825".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:39 |
| S45 1 | 2 | S450 and buffer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:45 |
| S45 2 | 8 | buffer near4 "MgZnO" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:46 |
| S45 3 | 5 | buffer near4 "MgZnO" and sapphire and GaN | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 09:51 |
| S45 4 | 0 | buffer near4 ("Mg.sub."\$4 near1 "Zn.sub."\$4 near1 "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 10:10 |
| S45 5 | 0 | buffer near6 ("Mg.sub."\$4 near1 "Zn.sub."\$4 near1 "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 10:11 |
| S45 6 | 0 | buffer near6 ("Mg.sub."\$4 adj "Zn.sub."\$4 adj "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 10:11 |
| S45 7 | 4 | buffer and ("Mg.sub."\$4 adj "Zn.sub."\$4 adj "O") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 10:11 |
| S45 8 | 23 | graded near3 buffer and zno and mgo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:58 |

EAST Search History

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|----------|------|---|---|----|----|------------------|
| S45 9 | 0 | graded near3 buffer same zno same mgo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:53 |
| S46 0 | 0 | graded near3 buffer same mgzno | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:53 |
| S46 1 | 0 | graded near3 buffer same mzo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:53 |
| S46 2 | 0 | grad\$3 near3 buffer same mzo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:53 |
| S46 3 | 172 | sic near3 substrate same sapphire. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 15:58 |
| S46 4 | 10 | sic near3 substrate same sapphire. ti,ab,clm. and silicon adj carbide.ti, ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 16:03 |
| S46 5 | 1403 | sic near3 substrate.ti,ab,clm. and silicon adj carbide | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 16:03 |
| S46 6 | 2 | "6057561".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 16:18 |
| S46 7 | 4 | lattice adj constant near10 MgO near10 ZnO | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 17:30 |
| S46 8 | 16 | lattice adj matching near4 efficiency | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 17:53 |

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S46 9 | 1 | GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable) near4 p-type near4 n-type | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 17:56 |
| S47 0 | 1 | GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable switch switching switchable) near4 p-type near4 n-type | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 17:56 |
| S47 1 | 8 | GaN.ti,ab,clm. and (interchange interchanged interchangeability interchangeable switch switching switchable reverse reversing reversible) near4 p-type near4 n-type | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 17:57 |
| S47 2 | 0 | sapphire adj substrate near6 back-side adj metallization | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/10 19:36 |
| S47 3 | 0 | sapphire adj substrate with back-side adj metallization | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/10 19:36 |
| S47 4 | 0 | sapphire adj substrate same back-side adj metallization | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/10 19:36 |
| S47 5 | 0 | sapphire adj substrate same back adj2 metallization | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/10 19:36 |
| S47 6 | 0 | sapphire adj substrate same (back adj2 metallization) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/10 19:37 |
| S47 7 | 86 | sapphire adj substrate same (metallization) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 19:37 |

EAST Search History

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|----------|----|--|---|----|----|------------------|
| S47 8 | 30 | sapphire adj substrate with (metallization) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/10 19:37 |
|----------|----|--|---|----|----|------------------|

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S47 9 | 70 | (US-20020030196-\$ or US-20030048072-\$ or US-20040227141-\$ or US-20020044028-\$ or US-20020056838-\$ or US-20040166379-\$ or US-20040164314-\$ or US-20040051109-\$ or US-20030132449-\$ or US-20020163005-\$ or US-20040104392-\$ or US-20050224825-\$ or US-20020025440-\$ or US-20040113156-\$ or US-20040189186-\$ or US-20030209723-\$ or US-20040235212-\$ or US-20030059972-\$ or US-20020126719-\$ or US-20020105279-\$ or US-20050062134-\$ or US-20020036466-\$ or US-20040169267-\$ or US-20050288169-\$ or US-20060040475-\$ or US-20040029368-\$).did. or (US-20050205881-\$).did. or (US-6806503-\$ or US-5670792-\$ or US-6559736-\$ or US-6716479-\$ or US-5804834-\$ or US-6639354-\$ or US-5135817-\$ or US-6939731-\$ or US-6416888-\$ or US-6057561-\$ or US-6320207-\$ or US-RE37446-\$ or US-6259016-\$ or US-6541797-\$ or US-5625202-\$ or US-5002837-\$ or US-5113273-\$ or US-7022182-\$). did. or (EP-1363334-\$).did. or (JP-2002111059-\$ or JP-2001210867-\$ or JP-2002164570-\$ or JP-11070610-\$ or JP-2002076356-\$ or JP-2002222991-\$ or JP-2004259549-\$ or JP-2000353820-\$ or JP-2002170993-\$ or JP-2005243955-\$).did. or (JP-2001210867-\$ or WO-200108229-\$ or JP-2002222991-\$ or WO-200245179-\$ or JP-11070610-\$ or US-20040164314-\$ or JP-2004266057-\$ or JP-59162133-\$ or JP-2002111059-\$ or JP-80013404-\$ or JP-50092490-\$ or US-20040166379-\$ or EP-863555-\$ or JP-2002076356-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/08/11 08:07 |
|----------|----|--|---|----|-----|------------------|

EAST Search History

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|--|-----|--|---|----|---------|------------------|
| S48 0 | 104 | (US-20020030196-\$ or US-20030048072-\$ or US-20040227141-\$ or US-20020044028-\$ or US-20020056838-\$ or US-20040166379-\$ or US-20040164314-\$ or US-20040051109-\$ or US-20030132449-\$ or US-20020163005-\$ or US-20040104392-\$ or US-20050224825-\$ or US-20020025440-\$ or US-20040113156-\$ or US-20040189186-\$ or US-20030209723-\$ or US-20040235212-\$ or US-20030059972-\$ or US-20020126719-\$ or US-20020105279-\$ or US-20050062134-\$ or US-20020036466-\$ or US-20040169267-\$ or US-20050288169-\$ or US-20060040475-\$ or US-20040029368-\$).did. or (US-20050205881-\$).did. or (US-6806503-\$ or US-5670792-\$ or US-6559736-\$ or US-6716479-\$ or US-5804834-\$ or US-6639354-\$ or US-5135817-\$ or US-6939731-\$ or US-6416888-\$ or US-6057561-\$ or US-6320207-\$ or US-RE37446-\$ or US-6259016-\$ or US-6541797-\$ or US-5625202-\$ or US-5002837-\$ or US-5113273-\$ or US-7022182-\$). did. or (EP-1363334-\$).did. or (JP-2002111059-\$ or JP-2001210867-\$ or JP-2002164570-\$ or JP-11070610-\$ or JP-2002076356-\$ or JP-2002222991-\$ or JP-2004259549-\$ or JP-2000353820-\$ or JP-2002170993-\$ or JP-2005243955-\$).did. or (JP-2001210867-\$ or WO-200108229-\$ or JP-2002222991-\$ or WO-200245179-\$ or JP-11070610-\$ or US-20040164314-\$ or JP-2004266057-\$ or JP-59162133-\$ or JP-2002111059-\$ or JP-80013404-\$ or JP-50092490-\$ or US-20040166379-\$ or EP-863555-\$ or JP-2002076356-\$).did. AND | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/08/11 08:08 |
| 1/2/2008 11:14:06 AM | | ISHIZAKI, IN | | | Page 63 | |
| C:\Documents and Settings\jmondr\My Documents\EAST\Workspaces\10748734.wsp | | | | | | |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S48 1 | 8 | S479 AND ISHIZAKI.IN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/08/11 08:08 |
| S48 2 | 1 | WO-200245179\$-\$.DID. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2006/08/11 08:10 |
| S48 3 | 23976 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/10\$1) or (372/43.01) or (372/46.01) or (372/46.013) or (372/46.015) or (372/29.013) or (349/4\$1) or (349/5\$1)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/11 08:11 |
| S48 4 | 234 | S483 and (magnesium Mg magnesium adj dop\$3 Mg-dop\$3) near10 (zinc adj oxide ZnO)".clm.,ti, ab." and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/11 08:14 |
| S48 5 | 234 | S483 and (magnesium Mg magnesium adj dop\$3 Mg-dop\$3) near10 (zinc adj oxide ZnO)".clm.,ti, ab." and electrode.ti,ab,clm. and @ad<"20031231" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/11 08:38 |
| S48 6 | 2 | ("4888202").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/11 08:38 |
| S48 7 | 2 | "20020126719".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/27 17:00 |
| S48 8 | 22098 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/10\$1) or (372/43.01) or (372/46.01) or (372/46.013) or (257/46.015) or (349/4\$1) or (349/50) or (349/51) or (349/52) or (349/53)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/27 18:12 |
| S48 9 | 94 | S488 and (zno zinc adj oxide) near10 (mg magnesium) near10 (impurity impurities doping dopant doped) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/27 18:13 |
| S49 0 | 20 | S488 and (zno zinc adj oxide) near10 (mg magnesium) near10 (impurity impurities doping dopant doped) and electrode.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/27 18:14 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S49 1 | 8 | S488 and (zno zinc adj oxide) near10 (mg magnesium) near10 (impurity impurities doping dopant doped) and electrode.ti,ab,clm. and @ad<"20031231" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/27 18:16 |
| S49 2 | 4 | (nakahara.in. rohm.as.) and (zno zinc adj oxide) near10 (mg magnesium) near10 (impurity impurities doping dopant doped) and electrode.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/27 18:25 |
| S49 3 | 17 | ((("6569548") or ("6531408") or ("6638846") or ("6649434") or ("6674098") or ("6987029") or ("7002179")).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/27 18:31 |
| S49 4 | 6 | S493 and GaN and ("Mg:Zno" "ZnO:Mg" MgZnO ZnO) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/27 18:31 |
| S49 5 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | OFF | 2007/01/30 16:29 |
| S49 6 | 22122 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/10\$1) or (372/43.01) or (372/46.01) or (372/46.013) or (257/46.015) or (349/4\$1) or (349/50) or (349/51) or (349/52) or (349/53)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/09 18:54 |
| S49 7 | 1 | S496 and electrode near6 ((ZnO near10 (Mg magnesium)) "ZnO:Mg" "Mg:ZnO") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/30 18:00 |
| S49 8 | 2 | (rohm.as. nakahara.in.) and electrode near6 ((ZnO near10 (Mg magnesium)) "ZnO:Mg" "Mg:ZnO") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/30 18:01 |
| S49 9 | 2 | "20020126719".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/01 15:55 |
| S50 0 | 11542 | resistivity near4 (Ohm near1 cm) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/01 15:56 |

EAST Search History

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|----------|-------|--|---|----|-----|------------------|
| S50 1 | 15 | resistivity near2 (Ohm near1 cm) near2 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/01 16:56 |
| S50 2 | 25 | le near1 hung.xa. | USPAT | OR | ON | 2007/05/01 17:26 |
| S50 3 | 1 | "20020080905".pn. | US-PGPUB; USPAT | OR | ON | 2007/05/01 17:26 |
| S50 4 | 2 | ("20020126719").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/25 19:57 |
| S50 5 | 3 | ("20020086517").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/25 19:57 |
| S50 6 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | OFF | 2007/05/25 23:07 |
| S50 7 | 0 | (US-20040166379-\$).did. and (smooth continuous\$2 curvature curve curved) | US-PGPUB | OR | OFF | 2007/05/25 23:08 |
| S50 8 | 1 | (US-20040166379-\$).did. | US-PGPUB | OR | OFF | 2007/07/09 17:30 |
| S50 9 | 79519 | (US-20040166379-\$).did.and" semiconductor adj device | US-PGPUB | OR | ON | 2007/07/09 17:30 |
| S51 0 | 0 | (US-20040166379-\$).did. and semiconductor adj device | US-PGPUB | OR | OFF | 2007/07/09 17:32 |
| S51 1 | 0 | (US-20040166379-\$).did. and semiconductor adj device | US-PGPUB | OR | ON | 2007/07/09 17:32 |
| S51 2 | 0 | (US-20040166379-\$).did. and semiconductor adj2 device | US-PGPUB | OR | ON | 2007/07/09 17:33 |
| S51 3 | 1 | (US-20040166379-\$).did. and semiconductor adj3 device | US-PGPUB | OR | ON | 2007/07/09 17:48 |
| S51 4 | 16 | ((("20020126719") or ("6423983") or ("6084899") or ("20050224825") or ("6787435") or ("4888202")).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/09 17:49 |
| S51 5 | 23237 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/10\$1) or (372/43.01) or (372/46.01) or (372/46.013) or (257/46.015) or (349/4\$1) or (349/50) or (349/51) or (349/52) or (349/53)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/09 18:54 |

EAST Search History

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|----------|-----|--|--|----|-----|------------------|
| S51 6 | 125 | S515 and (transparent translucent) near3 (electrode anode cathode) and ((zinc adj oxide zno) near4 magnesium "mg:zno" "zno:mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/09 18:58 |
| S51 7 | 126 | S515 and (transparent translucent) near3 (electrode anode cathode) and ((zinc adj oxide zno) near4 magnesium "mg:zno" "zno:mg") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/09 18:59 |
| S51 8 | 1 | S517 not S516 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/09 18:57 |
| S51 9 | 0 | (roh.m.as. nakahara.in.) and (transparent translucent) near3 (electrode anode cathode).clm. and ((zinc adj oxide zno) near4 (magnesium "mg:zno" "zno:mg")). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/09 18:59 |
| S52 0 | 0 | (roh.m.as. nakahara.in.) and (transparent translucent) near3 (electrode anode cathode).clm. and ((zinc adj oxide zno) near4 (magnesium "mg:zno" "zno:mg")). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/09 18:59 |
| S52 1 | 126 | S515 and (transparent translucent) near3 (electrode anode cathode) and ((zinc adj oxide zno) near4 (magnesium "mg:zno" "zno:mg")) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/09 18:59 |
| S52 2 | 2 | jp-2003037268\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/31 13:25 |
| S52 3 | 2 | ("20020126719").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/31 13:26 |
| S52 4 | 2 | ("20050224825").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/31 13:26 |

EAST Search History

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|----------|-------|--|--|----|----|------------------|
| S52 5 | 22071 | zinc adj oxide and magnesium and protect\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 13:58 |
| S52 6 | 54 | zinc adj oxide near10 magnesium near10 protect\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 13:59 |
| S52 7 | 24 | zinc adj oxide near10 magnesium near10 protect\$3 and @ad<"20030226" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:06 |
| S52 8 | 24 | (zno zinc adj oxide) near10 magnesium near10 protect\$3 and @ad<"20030226" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:06 |
| S52 9 | 89 | (zno zinc adj oxide) near10 (mgzno mgo magnesium) near10 protect\$3 and @ad<"20030226" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:06 |
| S53 0 | 89 | (zno zinc adj oxide) near10 ("Mg:ZnO" mgzno mgo magnesium) near10 protect\$3 and @ad<"20030226" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:07 |
| S53 1 | 89 | (zno zinc adj oxide) near10 ("Mg:ZnO" "ZnO:Mg" mgzno mgo magnesium) near10 protect\$3 and @ad<"20030226" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:19 |

EAST Search History

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|----------|-------|---|--|----|----|------------------|
| S53 2 | 64 | ((zno zinc adj oxide) near3 electrode) same (protecti\$2 near3 (layer film coating)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:20 |
| S53 3 | 0 | ((zno zinc adj oxide) near3 electrode) same (protecti\$2 near3 (layer film coating) near3 ("Mg:ZnO" "ZnO:Mg" mgzno magnesium adj oxide magnesium adj zinc adj oxide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:22 |
| S53 4 | 0 | ((zno zinc adj oxide) near3 electrode) same (protecti\$2 near3 (layer film coating) near3 ("Mg:ZnO" "ZnO:Mg" mgzno magnesium adj oxide magnesium adj zinc adj oxide zinc adj magnesium adj oxide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:23 |
| S53 5 | 0 | ((zno zinc adj oxide) near3 electrode) near20 (protecti\$2 near3 (layer film coating) near20 ("Mg:ZnO" "ZnO:Mg" mgzno magnesium adj oxide magnesium adj zinc adj oxide zinc adj magnesium adj oxide)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:24 |
| S53 6 | 2856 | ("Mg:ZnO" "ZnO:Mg" zinc adj oxide zno) near3 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:25 |
| S53 7 | 21 | ("Mg:ZnO" "ZnO:Mg" zinc adj oxide zno) near3 electrode and protect\$3 near10 acid | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:32 |
| S53 8 | 19007 | (zno zinc adj oxide) near3 (layer film coating coated coat) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 14:33 |

EAST Search History

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|----------|----|---|--|----|-----|------------------|
| S53 9 | 75 | (zno zinc adj oxide) near3 (layer film coating coated coat) same ((coat coating coated doping doped) near3 magnesium) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 15:39 |
| S54 0 | 0 | ("Mg:ZnO" "ZnO:Mg") near4 electrode and (laser light-emitting light adj emitting) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 15:40 |
| S54 1 | 6 | ("Mg:ZnO" "ZnO:Mg" MgZnO ZnMgO) near4 electrode and (laser light-emitting light adj emitting) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/31 16:29 |
| S54 2 | 2 | ("20020127853").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/12/31 16:29 |